

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA970SO

This certificate issued to

Mike Jones Aircraft Sales, Inc.
1932 Memorial Blvd
Murfreesboro, TN 37129

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

CAR 3 effective May 15, 1958 as amended through Amendment 3-6. See Type Certificate Data Sheet A20SO for complete certification basis.

Original Product Type Certificate Number: A20SO

Make: Piper

Model: PA31, PA31-325

Description of Type Design Change:

Installation of Lycoming model TIO-540-J2BD or TIO-540-J2B engines with Hartzell model HC-C4YR-2/FC7663D-4R or HC-C4YR-2/FC7663D-6Q propellers or one each Lycoming model TIO-540-J2BD or -J2B engine (left side) and one each model TIO-540-J2BD or -J2B engine (right side) with one each Hartzell model HC-C4YR-2/FC7663D-4R or -6Q propeller (left engine) and one each model HC-C4YR-2L/FC7663D-4R or -6Q propeller (right engine). An additional fuel pump, wingtip winglets and related cowlings changes as required.

(See Continuation Sheet 2 of 2)

Limitations and Conditions:

This approval is limited to the basic model PA-31 and PA-31-325 aircraft only and should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheet 2 of 2)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 19, 1977

Date received: February 10, 2011

Date of issuance: January 9, 1978

Date amended: 09/01/1978; 09/21/1979; 01/10/1983;
10/20/1992; 05/25/2007



By direction of the Administrator

(Signature)
Melvin D. Taylor
Manager
Atlanta Aircraft Certification Office

(Title)

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA970SO

Date of Issuance: January 9, 1978

Date Amended: May 25, 2007

Description of Type Design Change, Continued:

Modification Drawing Piper Navajo PA-31 Navajo-Panther-Drawing 68000, Revision D, Dated 5/17/82.

Installation Instructions for Modification of Piper Navajo Model PA-31 and PA-31-325, Drawing 68000, change "D" dated 5/17/82 and Supplemental Type Certificate (STC) SA970SO.

Installation Procedures Boost Pump PA-31 Drawing 62000 "A" Change dated November 30, 1977. (PA-31 Only)

Piper Kit 760-905

Colemill Enterprises, Inc., Process Specification for Drawings 64000 and 66000, dated August 31, 1977.

Colemill Enterprises, Inc., Process Specification #500 for Piper Wing Caps and Winglets, dated September 1, 1981.

Later FAA approved revisions of the above data are acceptable.

Limitations and Conditions, Continued:

Aero-Mac Laboratory, Inc. airspeed indicator, P/N 1517-(), and Airplane Flight Manual Supplements or Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplements are required as specified below:

PA-31's with PAC Report Numbers 1362, 1655, 1686, and 1702: Airplane Flight Manual Supplement dated January 9, 1978 is required with Aero-Mac Laboratory, Inc. airspeed indicator, P/N 1517-01.

PA-31-325's with PAC Report Number 1860: Airplane Flight Manual Supplement dated March 23, 1979 is required with Aero-Mac Laboratory, Inc. airspeed indicator, P/N 1517-06.

PA-31-325's with PAC Report Number 1964 and LK Report Number 1207: Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplement dated September 1, 1978 is required with Aero-Mac Laboratory, Inc. airspeed indicator, P/N 1517-05.

PA-31's with PAC Report Number 2045 and LK Report Number 1206: Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplement dated September 1, 1979 is required with Aero-Mac Laboratory, Inc. airspeed indicator, P/N 1517-07.

PA-31 (Counter Rotating) with Serial Nos. 31-2 through 31-7612110: FAA Approved Flight Manual Supplement dated May 25, 2007.

PA-31 (Counter Rotating) with Serial Nos. 31-7712001 and Subsequent: Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplement dated May 25, 2007.

PA-31-325 (Counter Rotating) with Serial Nos. 31-7300932 through 31-7612110: Airplane Flight Manual Supplement dated May 25, 2007.

PA-31-325 (Counter Rotating) with Serial Nos. 31-7712001 and Subsequent: Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplement dated May 25, 2007.

Later FAA approved revisions of the above data are acceptable.

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.